

## Why did we do this?

To leverage a low-interest loan opportunity from the Middle Rio Grande Conservancy District that would make funding immediately available for overdue irrigation infrastructure improvements, elm removal, and concrete removal often not covered by other conservation cost-share programs.

Through this funding, we can now showcase the multi-purpose potential of Open Space Properties that support sustainable agriculture, conservation, community enrichment, and the financial investments and management practices required to achieve those goals.

## What are the benefits?

#### Improved irrigation efficiency and water conservation

- Increased farmable acreage
- Increased water conserved
- Reduced irrigation time/labor

- Support NM's Rio Grande Compact
- Improved stormwater function

#### Soil Health Management and Habitat Restoration

- Increased infiltration and rooting depth
- Reduced compaction, waterlogging, and pests
- Increased biodiversity aboveground and below
- Demonstration of climate-smart cropping systems

- Increased urban wildlife corridors
- Pedestrian safety

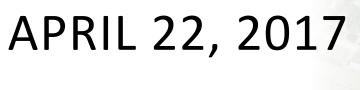
# PASEO DEL NORTE OPEN SPACE HISTORICAL TIMELAPSE



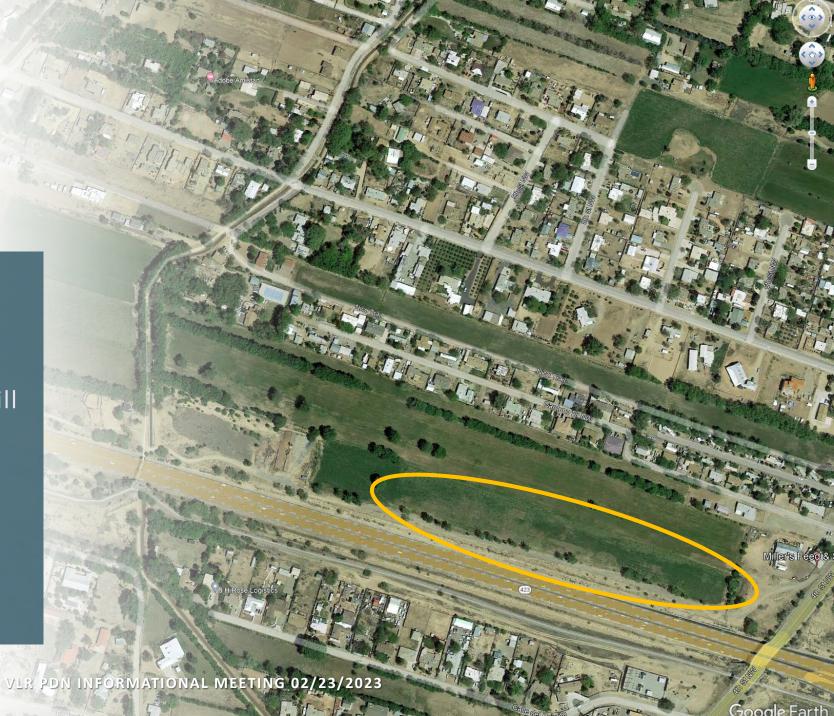
- Previous site of local plant nursery
  - Tree nursery present
  - Building structures present





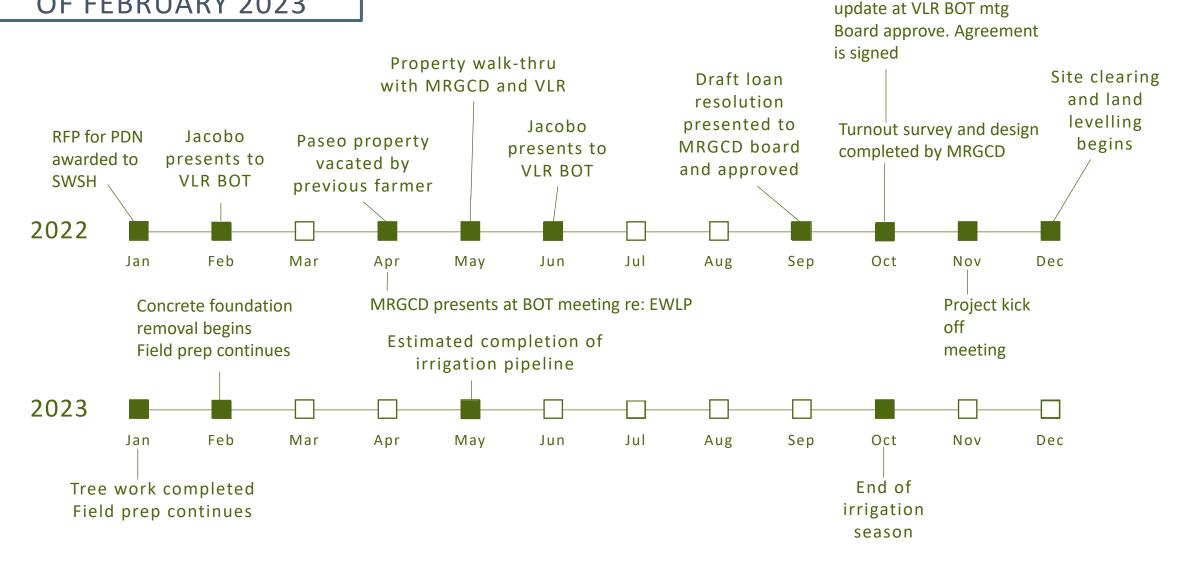


- Hay production begins to fill in previously disturbed spots
- Large areas of reduced production persists





#### 2-YEAR ACTION PLAN AS OF FEBRUARY 2023



MRGCD presents project

### Full presentation previously presented at VLR Board of Trustees Meetings:

- 1. February 9<sup>th</sup>, 2022
- 2. June 8<sup>th</sup>, 2022

#### IRRIGATION NFRASTRUCTURE LAYOUTS





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- 1. February 9<sup>th</sup>, 2022
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#### IRRIGATION NFRASTRUCTURE LAYOUTS

Exhibits 2, 4, 5, & 6 Current: 48+ hrs Legend: **Turnout** Irrigation pipeline Alfalfa valve Stormwater structure/ bioswale, wildlife habitat

Proposed: 24 hrs



Dirt access road

## Full presentation previously presented at VLR Board of Trustees Meetings:

- 1. February 9<sup>th</sup>, 2022
- 2. June 8<sup>th</sup>, 2022

#### IRRIGATION NFRASTRUCTURE LAYOUTS

Current: 8-12 hrs

Exhibit 3

Proposed: 3 hrs



Legend:



Irrigation pipeline



Alfalfa valve



Re-set turnout for farm delivery pad/irrigation pipeline

Dirt access road



VLR PDN INFORMATIONAL MEETING 02/23/2023

**DESIGN** 

An approved engineering design and schedule for installation of the irrigation pipeline for the 16 ac. Cover Crop Fields.

#### VILLAGE OF LOS RANCHOS NEW MEXICO

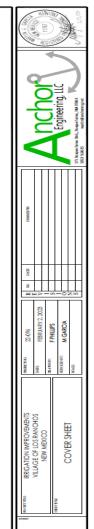


#### **IRRIGATION IMPROVEMENTS**

#### **FEBRUARY 2023**

INDEX OF DRAWINGS		
	Tl	COVER SHEET
	G1	SUMMARY OF QUANTITIES AND GENERAL CONSTRUCTION NOTES
	Cl	IRRIGATION LAYOUT PLAN AND PROFILE
	C2	IRRIGATION LAYOUT PLAN AND PROFILE
	C3	IRRIGATION LAYOUT PLAN AND PROFILE
	C4	SITE DETAILS





T1

### **CURRENT ACTIVITIES**

#### **Design and Review**

- MRGCD completed and submitted turnout survey and design to VLR
- Land leveling and irrigation pipeline surveys and designs completed
  - Designs are currently being reviewed by MRGCD

#### **Contracting and Implementation**

- Fields were ripped, disced, and leveled per survey and design
- Site debris/concrete removal continues
- Elms removed and/or thinned



#### FIELD PREPARATION

- Ripping
- Discing
- Land leveling



## **FOCUS AREAS**

#### CONCRETE REMOVAL

- 280 cu/yd of concrete removed (180" x 40")
- ~2 ac. farmable acreage increased



#### ELM REMOVAL/THINNING

- Dirt ditches cleared of elm trees and saplings
- Mulch from trees used for walkways
- Overhanging limbs removed to allow for pedestrians and equipment to safely travel

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## FIELD PREPARATION DECEMBER 2022











## DEBRIS REMOVAL DECEMBER 2022







## DEBRIS REMOVAL JANUARY 2022





### DEBRIS REMOVAL JANUARY 2022



### ELM REMOVAL/THINNING





### ELM REMOVAL/THINNING





## CONCRETE REMOVAL FEBRUARY 2023



#### PROPERTY OVERVIEW

- Green areas indicate fields that will be planted in 2023
- Orange areas indicate areas that have been reclaimed and will be planted in 2023
- Purple areas indicate Wildlife Habitat areas that will be monitored and maintained as they currently exist



## 2023 CROP PLAN

- ~15 ac. of Cool/Warm Season forage mixture of 4 different species for livestock grazing
- ~3 ac. of already existing native buffalograss will be maintained

#### **2023 CROP PLAN**

A series of ~2 ac. cover crop fields will be grown, incorporated back into the soil, and then rotated with other cover crop species throughout the year to address the following soil health resource concerns:

- Nutrient management, pest management and compaction Species were selected for this first year based on:
- Growing season, soil type, water use, and cost



## THANK YOU

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